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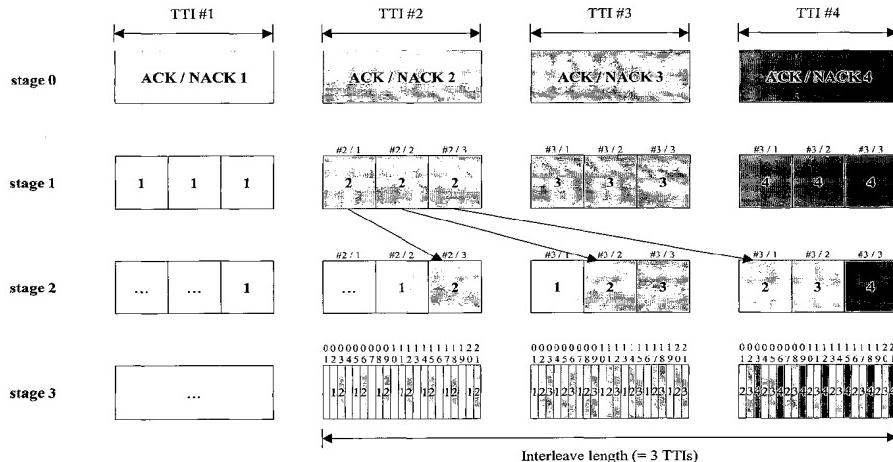
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(54) Title: ACKNOWLEDGEMENT SIGNALING FOR AUTOMATIC REPEAT REQUEST MECHANISMS IN WIRELESS NETWORKS



(57) **Abstract:** The present invention purports an enhanced acknowledgement / non-acknowledgement signaling applicable to automatic repeat request mechanisms. The automatic repeat request (ARQ) mechanisms is operable with a sender of data packets. The signaling comprises a number of ACK/NACK messages, which are dedicated to be transmitted on a time-multiplexed channel, which is partitioned into transport time intervals (TTIs) in accordance with the timemultiplexing. Within each transport time interval (TTI), a number of predefined shares is defined. Each share has a predefined extent in time. Each ACK/NACK message is transmitted within a predefined selection of shares. The total extent in time of the predefined selection of shares corresponds to an extent in time of the transport time interval. The inventive method enables to extend the interleave length for the transmission of a ACK/NACK messages without requiring only radio frequency resources, required with known signaling methods.

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